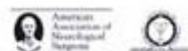


Pediatric SHORT CUTS



AANS/CNS Section on Pediatric Neurological Surgery

Editor: Bruce A. Kaufman, MD

Fall 2009

From the Chair

Tina Duhaime, MD

The objectives of the Section shall be to enhance and assure the advancement of the subspecialty of pediatric neurosurgery by:

- (1) serving as a forum for the intimate exchange of ideas and information among a group of neurological surgeons whose interests are directed towards the infant and child,*
- (2) serving as a section to assist the AANS and CNS to advance education, research, and patient care in the area of pediatric neurosurgery.*

Founder Kenneth Shulman, MD, and Founder and First Chairman Robert McLaurin, MD

Greetings colleagues!



Tina Duhaime, MD

As we approach our 38th Annual Meeting, the field of pediatric neurosurgery has matured through its formative years and is now a full-fledged and acknowledged "citizen" of the community of medical specialties. As in all fields, evolution and growth continue, and new questions and issues arise. Should we change the name of our organization to reflect the fact that our expertise is applicable also for adults with congenital disorders? How can we continue to attract dedicated and energetic individuals to pediatric neurosurgery? What are our opportunities and obligations to patients in less developed parts of the world? How can we translate advances in science to effective care of patients in our field? Where do our issues and those of the patients and families we serve fit into the larger debates about healthcare delivery?

During the next two years, my goal as chair of the Pediatric Section is to carry forward the valuable projects and initiatives begun by my predecessors, as well as to focus on two specific issues.

First, through the recent establishment of the Research Committee and through the recent



Boston's Faneuil Hall Marketplace
Greater Boston Convention & Visitors Bureau

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allocation of pilot funds for this effort from the Executive Council, we hope to begin to *facilitate scientific research projects of specific applicability to pediatric neurosurgery*.

Second, through the dedicated work and thoughtful suggestions of many section members, we hope to *streamline, focus, and concentrate our efforts with respect to national meetings* involving the section. Our goal is to respond to the educational needs of the membership -- and those who care for children but who may not be section members -- by optimizing quality, reducing redundancy, and varying the specific formats most appropriate for the goals of our various meetings.

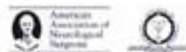
To learn more, and to get involved, I hope you can attend our annual meeting in Boston! There you can exchange ideas with colleagues, learn what others are doing, and be part of the debates and decisions. There will be new data to discuss, and award-winning papers, honorary talks, point-counterpoint forums, and an expert-packed symposium on the latest in neurofibromatosis will be presented. A special breakfast just for trainees to learn more about our specialty also will be held.

Whether you are able to attend the meeting or not, we urge you to get involved with the Pediatric Section. This is your organization, and we are here to serve your needs. Please feel free to contact any of the officers by e-mail with your feedback and your ideas.

Tina Duhaime, MD, is chair of the AANS/CNS Section on Pediatric Neurological Surgery.

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Pediatric SHORT CUTS



AANS/CNS Section on Pediatric Neurological Surgery

Editor: Bruce A. Kaufman, MD

Fall 2009

From the Secretary

Bruce A. Kaufman, MD



Bruce A. Kaufman, MD

Beginning Dec. 1 in historic Boston Mass., the AANS/CNS Section on Pediatric Neurological Surgery will hold its annual winter meeting. If you have not yet made your arrangements to join us, it is not too late—do it now! Our local host, Lili Goumnerova, MD, has helped to arrange a wonderful meeting. An abbreviated [meeting schedule](#) is included in this issue of the newsletter to entice you to join us.

The Membership Committee has worked hard to simplify the process of joining our section, and their efforts have been quite successful in adding to our membership roll. The latest group of [candidates for membership](#) is included in this issue.



Boston Custom House
Greater Boston Convention & Visitors Bureau

The Pediatric Section is quite proud of the work done by our members participating in SONS, the Section on Neurological Surgery of the American Academy of Pediatrics. Mark Dias, MD, has provided an [overview](#) of this work in this issue. The SONS again will be sponsoring a special lecture during the winter meeting.

Lastly, Section Chair Tina Duhaime, MD, has outlined [goals](#) for the Pediatric Section that will guide us in the coming years. As our section has evolved and matured, our goals also have evolved. Dr. Duhaime has outlined a worthy path for our group.

On behalf of the Pediatric Section's Executive Committee, I look forward to welcoming all of you to our annual meeting in Boston.

Bruce A. Kaufman, MD, is secretary of the AANS/CNS Section on Pediatric Neurological Surgery and editor of Pediatric ShortCuts.

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Pediatric SHORT CUTS



AANS/CNS Section on Pediatric Neurological Surgery

Editor: Bruce A. Kaufman, MD

Fall 2009

Winter Meeting 2009 Join Us in Boston Dec. 1-4!

Liliana Goumnerova, MD



Liliana Goumnerova, MD

Historic Boston is the venue for the 2009 Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. The meeting will run from Dec. 1 to Dec. 4 and will take place at the Boston Marriott Copley Place.

A full-day seminar oriented to nurses and physician assistants immediately precedes the main event. The exciting [scientific program](#) continues over the next three days, with the Raimondi lecture on Thursday, Dec. 3. The meeting concludes with a half-day symposium on the management of children with neurofibromatosis type 1.

Charles D. Stiles, PhD, will deliver the Raimondi Lecture. Dr. Stiles is professor of microbiology and molecular genetics at Harvard Medical School. He is one of two co-leaders of the neuro-oncology program at the Dana Farber/Harvard Cancer Center. He has had a long-standing interest in brain development and neuro-oncology and has been instrumental in the development of "smart drugs"—genetically targeted compounds that can kill tumor cells without causing collateral damage to normal cells.



Boston Harborwalk
Greater Boston Convention & Visitors Bureau

The central location of the Boston Marriott Copley Place is within walking distance of the Public Garden, historic Beacon Hill, and dining and shopping areas. There will be opportunities for organized tours of Beacon Hill and some of the many museums in Boston as part of the social program. Boston can provide entertainment for sports fans (the Boston Bruins and Boston Celtics), art and music lovers (the Museum of Fine Arts, and the Boston Symphony Orchestra under the direction of James Levine) and shoppers.

Of note, the American Epilepsy Society is holding its annual meeting Dec. 4-8 at the Hynes Convention Center, next door to the Marriott.

You can register for the Pediatric Section meeting online at www.pedsneurosurgery.org/meeting.asp.

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Please join us in Boston Dec. 1-4, 2009, for an exciting meeting.

Liliana Goumnerova, MD, is chair of the 2009 Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery.

[Preliminary Program](#) (PDF)

**Scientific Program
TUESDAY, DEC. 1, 2009**

6:30 – 8:00 PM

Opening Reception Third Floor Atrium

WEDNESDAY, DEC. 2, 2009

7:00 AM – 5:30 PM

Registration Registration B, Fourth Floor

7:00 – 8:00 AM

Continental Breakfast

7:00 – 8:00 AM

ASPN Mission & Goals Meeting Exeter Room

7:00 AM – 4:00 PM

Speaker Ready Room Yarmouth Room

8:00 – 8:05 AM

Welcome and Opening Remarks

Ann-Christine Duhaime, MD

8:05 – 8:35 AM

Cervical Spine Fusion and Instrumentation in Children

Moderator: Mark R. Proctor, MD

Arnold H. Menezes, MD

Douglas L. Brockmeyer, MD

8:30 – 10:00 AM

Session I: Hydrocephalus

Moderators: Mark R. Proctor, MD; David I. Sandberg, MD

8:30 – 8:39 AM

1. Variations Among Experienced Pediatric Neurosurgeons in Treating Hydrocephalus

A. Leland Albright, MD (Madison, Wis.)

8:40 – 8:49 AM

2. The Association Between Cerebrospinal Fluid Shunting and Hearing Loss in Children With Medulloblastoma

Daniel J. Guillaume, MD, MS; Kristin Knight, MS; Edward Neuwelt, MD (Portland, Ore.)

8:50 – 8:59 AM

3. The Dynamics of Brain and CSF Growth in the Developing Hydrocephalic Mouse

Jason G. Mandell, MS; Thomas Neuberger, PhD; Corina S. Drapaca, PhD; Andrew G. Webb, PhD; Steven J. Schiff, MD, PhD (University Park, Pa.)

9:00 – 9:09 AM

4. Vascular Endothelial Growth Factor as a Potential Target for Hydrocephalus

Joseph R. Madsen, MD; Joon W. Shim, PhD; Johanna Sandlund, MD, PhD; Mustafa Q. Hameed, MD; Susan Connors, BS; Sandra Smith, MS; Laurel Fleming, BA; Gani Abazi, MD, MPH; Michael Klagsbrun, PhD (Boston, Mass.)

9:10 – 9:19 AM

5. Effectiveness of a Clinical Pathway for Patients With Cerebrospinal Fluid Shunt

Joshua J. Chern, MD, PhD; Charles G. Macias, MD, MPH; Andrew Jea, MD; Daniel J. Curry, MD; Thomas G. Luerssen, MD; William E. Whitehead, MD, MPH (Houston, Texas)

9:20 – 9:29 AM

6. Endoscopic Third Ventriculostomy for Shunt Malfunction: What to Do With the Shunt

Julian J. Lin, MD; David Neils, MD (Peoria, Ill.)

9:30 – 9:39 AM

7. The Effect of MRIs on Programmable Shunts: A Retrospective Study

Keyne K. Johnson, MD; Valleria Bagley, MD; Jogi Pattisapu, MD; Christopher Gegg, MD; Greg Olavarria, MD (Orlando, Fla.)

9:40 – 9:49 AM

8. Shunting in Chronic Hydrocephalus Induces VEGFR-2 and Blood Vessel Density Changes in the Hippocampus

Mark Luciano, MD, PhD; Abhishek Deshpande, BS; Stephen Dombrowski, PhD; Natalie Krajcir, BA; Nicholas Zingales; Jun Yang, MD (Cleveland, Ohio)

9:50 – 9:59 AM

9. Imaging Characteristics Were Not Predictive of Ventriculosubgaleal Shunt Conversion in VLBW Infants With Post-Hemorrhagic Hydrocephalus

Sam A. McBride; Amelia K. Boehme; Chevis N. Shannon, MBA; Jay Riva-Cambrin; Curtis J. Rozzelle, MD; Jeffrey P. Blount, MD; W. Jerry Oakes, MD; Waldemar A. Carlo, MD; John C. Wellons III, MD (Birmingham, Ala.)

10:00 – 10:30 AM

Beverage Break in the Exhibit Hall

10:30 – 12:00 PM

Session II: Tumors

Moderators: Jodi L. Smith, MD, PhD; Robert F. Keating, MD

10:30 – 10:39 AM

10. Surgical Management of Giant Pediatric Craniopharyngiomas

Robert E. Elliott, MD; Kevin Hsieh, MD; Jeffrey H. Wisoff, MD (New York, N.Y.)

10:40 – 10:49 AM

11. Safety and Utility of Scheduled Non-Narcotic Analgesic Medications in Children Undergoing Craniotomy for Brain Tumor

David F. Bauer, MD; Alicia M. Waters, BS; R. Shane Tubbs, PhD, PA-C; Curtis J. Rozzelle, MD; John C. Wellons III, MD; Jeffrey P. Blount, MD; W. Jerry Oakes, MD (Birmingham, Ala.)

10:50 – 10:59 AM

12. Endonasal Endoscopic-Assisted Transphenoidal Resection of Sellar/Suprasellar Lesions in the Pediatric Population

Shaan Raza, MD; James Frazier, MD; Kaisorn Chaichana, MD; Violette Recinos, MD; Alfredo Quinones-Hinojosa, MD; George I. Jallo, MD (Baltimore, Md.)

11:00 – 11:09 AM

13. Clinical Management and Seizure Control in Pediatric Gangliogliomas

Chiachien J. Wang, PhD; J. Gordon McComb, MD; Mark D. Krieger, MD (Los Angeles, Calif.)

11:10 – 11:19 AM

14. Recurrence Risk Associated With Immediate and Delayed Postoperative MRI Changes in Children With Pilocytic Astrocytoma

Wendy M. Goldstein, BS; Mark D. Krieger, MD; J. Gordon McComb, MD (Los Angeles, Calif.)

11:20 – 11:29 AM

15. Seizure Outcome Following Surgical Resection of Dysembryoplastic Neuroepithelial Tumors in Children

Teda Arunrut; J Gordon McComb, MD; Mark D. Krieger, MD (Los Angeles, Calif.)

11:30 – 11:39 AM

16. Long-Term Results of Interstitial Radiosurgery in Chiasmal/Hypothalamic Gliomas

Peter C. Warnke, MD, FRCS (Boston, Mass.); Ali Savas III, MD (Ankara, Turkey); Cristoph Ostertag, MD (Freiburg, Germany)

11:40 – 11:49 AM

17. Findings on MRI Brain Used to Triage Preoperative Imaging of Neuraxis in Children With Cerebellar Neoplasms

Jonathan A. Forbes; Matthew Pearson, MD (Nashville, Tenn.)

11:50 – 11:59 AM

18. All Diffuse Intrinsic Pontine Gliomas Should Be Biopsied

Michael H. Handler, MD; Nicholas B. Foreman, MB (Aurora, Colo.)

12:00 – 1:00 PM

Lunch in the Exhibit Hall

12:00 – 1:00 PM

SONS Meeting/Lunch

Suffolk Room

1:00 – 2:30 PM

Session III: Developmental Anomalies

Moderators: Mark S. Dias, MD; Bermans J. Iskander, MD

1:00 – 1:09 PM

19. Influence of Dural Opening on Scoliosis in Patients With Chiari I Malformations

Todd C. Hankinson, MD (Birmingham, Ala.); Jason Wade; Saadi Ghatan, MD; Richard C.E. Anderson, MD; Neil A. Feldstein, MD (New York, N.Y.)

1:10 – 1:19 PM

20. Initial Surgical Technique for the Treatment of Middle Fossa Arachnoid Cysts: Bi-Institutional Comparison of Results and Complications

Todd C. Hankinson, MD (Birmingham, N.Y.); R. Shane Tubbs, PhD, PA-C (Birmingham, Ala.); Ivan Kotchetkov, BA; Richard C.E. Anderson, MD (New York, N.Y.); Jeffrey Blount, MD; W. Jerry Oakes, MD (Birmingham, Ala.); Neil A. Feldstein, MD (New York, N.Y.); John C. Wellons, MD (Birmingham, Ala.)

1:20 – 1:29 PM

21. Limited Access Craniostomy Surgery Without Using Cranial Orthotics

Dean A. Hertzler II, MD; Kerry Crone, MD; Todd Maugans, MD (Cincinnati, Ohio)

1:30 – 1:39 PM

22. Endoscopic Transphenoidal Fenestration of Rathke Cleft Cysts in Children

Erin Kiehna, MD; Spencer C. Payne, MD (Charlottesville, Va.); Edward R. Laws Jr., MD (Boston, Mass.); John A. Jane Jr., MD (Charlottesville, Va.)

1:40 – 1:49 PM

23. Natural History of Intracranial Arachnoid Cysts in Children

Andrew Y. Yew, BS; Wajid N. Al-Holou, MD; Zackary Boomsaad, MD; Hugh J.L. Garton, MD, MHSc; Karin M. Muraszko, MD; Cormac O. Maher, MD (Ann Arbor, Mich.)

1:50 – 1:59 PM

24. Surgical Management for Cranial Congenital Dermal Sinus

Chiachien J. Wang, PhD; Tien T. Nguyen, MD; Mark D. Krieger, MD; J. Gordon McComb, MD (Los Angeles, Calif.)

2:00 – 2:09 PM

25. Treatment Practices for Chiari I Malformation With Syringomyelia

Brandon Rocque, MD (Madison, Wis.); Timothy George, MD, FACS (Austin, Texas); John Kestle, MD (Salt Lake City, Utah); Bermans J. Iskandar, MD (Madison, Wis.)

2:10 – 2:19 PM

26. Incidence of Tethered Spinal Cord in Infants With VACTERL

Brent O'Neill, MD (Seattle, Wash.); Elizabeth Tyler-Kabara, MD, PhD (Pittsburgh, Pa.)

2:20 – 2:29 PM

27. Symptom Response Patterns and Role of Duraplasty and Scoliosis in Retethering in Post-Myelomeningocele Repair Tethered Cord Syndrome

Vivek Arjun Mehta, BS; Violette Renard, MD; Ulrich Thomale, MD; Ed Ahn, MD; George I. Jallo, MD (Baltimore, Md.)

2:30 – 3:00 PM

Beverage Break in the Exhibit Hall

3:00 – 4:30 PM

Session IV: Functional

Moderators: Shenandoah Robinson, MD; David Frim, MD, FACS

3:00 – 3:09 PM

28. Complete vs. Anterior 2/3rd Corpus Callosotomy in Children: Analysis of Outcome

Laleh Jalilian, MD (St Louis, Mo.); Alexander K. Powers, MD (Wake Forest University, N.C.); James Johnston, MD; David D. Limbrick, MD, PhD; Matthew D. Smyth, MD, FACS (St. Louis, Mo.)

3:10 – 3:19 PM

29. Functional Mapping in Epileptic Patients With Varying Motor Control Using Spectral Changes in ECoG

Andrew S. Geneslaw, BS; Eun-Hyoung Park, PhD; Sheryl Manganaro, BS; Joseph Madsen, MD (Boston, Ma.)

3:20 – 3:29 PM

30. Spinal Deformities Post Selective Dorsal Rhizotomy After the Pubertal Growth Spurt

Rajeet S. Saluja, MD; Jeff D. Golan, MD, FRCS(C); Michele Parolin, MD;

Jeffery A. Hall, MD, FRCS(C); Gus O'Gorman, MD, FRCS(C); Chantal Poulin, MD, FRCS(C); Thierry E. Benaroch, MD, FRCS(C); Marie-Andree Cantin, MD, FRCS(C); Jean-Pierre Farmer, MD, FRCS(C) (Montreal, Canada)

3:30 – 3:39 PM

31 Safety of Staged Epilepsy Surgery

Jonathan Roth, MD; Chad Carlson, MD; Orrin Devinsky, MD; Howard L. Weiner, MD (New York, N.Y.)

3:40 – 3:49 PM

32. MEG Passive Language Localization in Sedated Children

Frederick A. Boop, MD; McManis Mark, PhD; Freedom Perkins, MD; Mark Van Poppel, MD; Amy McGregor, MD; Dave Clarke, MD; James Wheless, MD (LeBonheur Children's Hospital, Memphis, Tenn.)

3:50 – 3:59 PM

33. Corpus Callosotomy Outcomes: The Denver Children's Experience

Elisa J. Kucia, MD; Susan Koh, MD; Paul M. Levisohn, MD; Kelly Knupp, MD; Pramote Laoprasert, MD; Michael Handler, MD (Denver, Colo.)

4:00 – 4:09 PM

34. Seizure Localization in Pediatric Patients Using Spectral Clustering of Infra-Slow Oscillations in Gamma Band Power

Andrew L. Ko, MD; Jeffrey Ojemann, MD; Samuel Browd, MD, PhD; Edward Novotny, MD (Seattle, Wash.)

4:10 – 4:19 PM

35. Histological Evidence for the Significance of the Intraoperative Monitoring in Selective Dorsal Rhizotomy

Tomohisa Shimizu, MD; Toru Fukuhara, MD, PhD; Yoichiro Namba, MD (Okayama, Japan)

4:20 – 4:29 PM

36. Clinical Outcomes and Functional Recovery Following Supplementary Motor Area Resection in Pediatric Nonlesional Epilepsy Surgery

Charles B. Stevenson, MD; James Leach, MD; Joo-Hee Seo, MD; Ki Lee, MD; Katherine Holland, MD, PhD; Anna Byars, PhD (Cincinnati, Ohio); Matthew Smyth, MD (St. Louis, Mo.); Francesco Mangano, DO (Cincinnati, Ohio)

4:30 – 5:30 PM

Wine and Cheese in the Exhibit Hall

5:30 – 6:30 PM

Question Writing Session for SANS and ABPNS Clarendon Room

THURSDAY, DEC. 3, 2009

7:00 AM – 4:00 PM

Registration Registration B, Fourth Floor

7:00 – 8:00 AM

Continental Breakfast

7:00 AM – 4:00 PM

Speaker Ready Room Yarmouth Room

8:00 – 8:30 AM

The Management of the Incidentally Discovered Middle Cranial Fossa Arachnoid Cyst

Moderator: Cory Raffel, MD, PhD

Sarah J. Gaskill, MD, FACS
Nalin Gupta, MD, PhD

8:30 – 10:00 AM

Session V: Trauma

Moderators: Corey Raffel, MD, PhD; Thomas M. Moriarity, MD, PhD

8:30 – 8:39 AM

37. Decompressive Craniectomy for Trauma in Children: Is It Worth it? A Critical Look at 75 Patients

Christina Notarianni, MD; Stephanie Einhaus, MD; Frederick Boop, MD; Robert Sanford, MD; Shelly Timmons, MD, PhD; Daniel Kueter, MD; Michael Muhlbauer, MD (Memphis, Tenn.)

8:40 – 8:49 AM

38. Concussions in Pediatric Patients: Preliminary Results Using Diffusion Tensor Imaging, Functional MRI and Neuropsychological Testing

Rajeet S. Saluja, MD; Jen-Kai Chen, PhD; Rosanne Aleong, PhD; Gabriel Leonard, PhD; Sierra Debenham; Tomas Paus, PhD (Montreal, Canada); Michelle Keightley, PhD (Toronto, Canada); Isabelle Gagnon, PhD; Alain Ptito, PhD (Montreal, Canada)

8:50 – 8:59 AM

39. Cervical Spine Clearance in the Pediatric Trauma Population

Praful Maste, MD; Paul Porensky, MD; Promod Pillai, MD; Corey Raffel, MD, PhD; Ronald T. Grondin, MD, FRCSC (Columbus, Ohio)

9:00 – 9:09 AM

40. High Folate Diet in the Rat Significantly Increases Neural Regeneration after Spinal Cord Injury

Nirav J. Patel, MD; Nithya Hariharan, MD; Solomon Ondoma, MD; Bermans Iskandar, MD (Madison, Wis.)

9:10 – 9:19 AM

41. Prognosis for Children in Cardiac Arrest Shortly After Blunt Cranial Trauma

Lars Widdel, MD (Aurora, Colo.); Kathryn Beauchamp, MD (Denver, Colo.); Ken R. Winston, MD (Aurora, Colo.)

9:20 – 9:29 AM

42. Retroclival Epidural Hematoma: Clinical Characteristics and Diagnostic Technique

Todd C. Hankinson, MD; R. Shane Tubbs, PhD, PA-C; Christoph Griessenauer, MD; Curtis Rozzelle, MD; John C. Wellons, MD; Jeffrey Blount, MD (Birmingham, Ala.); Aaron A. Cohen-Gadol, MD, MSc (Indianapolis, Ind.); W. Jerry Oakes, MD (Birmingham, Ala.)

9:30 – 9:39 AM

43. Cell Proliferation and Neuronal Migration After Closed-Head Injury in the Immature Piglet

Symeon Missios, MD; Brent Harris, MD, PhD; Michael Simoni, BS; Tarek Radwan, MD; Beth Costine, PhD; Carter Dodge, MD; Simon Hillier, MD; Leslie B. Adams; Ijeoma S. Chinwuba; Kate Hillier; Ann-Christine Duhaime, MD (Lebanon, N.H.)

9:40 – 9:49 AM

44. Wartime Pediatric Neurosurgery: The Experience in Afghanistan During Operation Enduring Freedom

Paul Klimo, MD, MPH (WPAFB, Ohio); Brian Ragel, MD (Portland, Ore.); William Scott, DO (Las Vegas, Nev.)

9:50 – 9:59 AM

45. Serial Radiography in Abusive Head Trauma: A Penn State Update
Mark S. Dias, MD; Ray K. Bradford, BS; Arabinda Choudhary, MD (Hershey, Pa.)

10:00 – 10:40 AM

Beverage Break in the Exhibit Hall
Reception for Dr. McLone

10:40 AM – 12:00 PM

Session VI: Tumors/Developmental Anomalies

Moderators: Ian F. Pollack, MD; Thomas Pittman, MD

10:40 – 10:49 AM

46. The Human and Rat Filum Terminale: A Novel Source of Multipotent Cells

Ruchira M. Jha, MD; Joseph Madsen, MD; Ryan Chrenek, BA; Xiaojin Liu, PhD; David L. Cardozo, PhD (Boston, Mass.)

10:50 – 10:59 AM

47. Atlantal Hemi-Rings and Cranial-Cervical Instability: Identification, Clinical Characteristics, and Management

Taryn M. Bragg, MD, MS; Douglas L. Brockmeyer, MD (Salt Lake City, Utah)

11:00 – 11:09 AM

48. Positional Plagiocephaly Management at the Children's Hospital of Eastern Ontario: Long-Term Outcomes

Michael Vassilyadi, MD, FRCSC; Mohammed F. Shamji, MD, PhD; Praneal Merchant, BSC; Elana C. Fric-Shamji, MD; Karen Dube, RN, NP; Enrique C.G. Ventureyra, MD, FRCS(C) (Ottawa, Canada)

11:10 – 11:19 AM

49. A Method for Early Correction of Anterior Calvarial Craniosynostosis Using Minimally Invasive Orbital Advancement

Ian M. Heger, MD (Jacksonville, Fla.); Eric Stelnicki, MD; Ari-Yuri Camargo (Hollywood, Fla.)

11:20 – 11:29 AM

50. Successful Resection of Cystic Hygromas of the Neck Involving the Brachial Plexus

Daniel Harmon, MD; Todd C. Hankinson, MD; Nadine Bradley, BSN, RN; Chevis Shannon, MBA; R. Shane Tubbs, PhD, PA-C; John C. Wellons, MD (Birmingham, Ala.)

11:30 – 11:39 AM

51. Maternal Embryonic Leucine Zipper Kinase Is an Enrichment Marker for Tumor-Initiating Cells in Medulloblastomas and Plays a Key Role in Their Proliferation

Lissa C. Baird, MD; Amber Miller, MS; Hal S. Meltzer, MD; Michael L. Levy, MD, PhD; Alexey Terskikh, PhD (San Diego, Calif.)

11:40 – 11:49 AM

52. The Human Neonatal Cerebrospinal Fluid Proteome: Application of Nano-Ic-ft-ms Proteomics to Post-Hemorrhagic Hydrocephalus

David D. Limbrick, MD, PhD; Carrie Mercier, BS; Reid Townsend, MD, PhD; Terrie Inder, MD, PhD (St. Louis, Mo.)

11:50 – 11:59 AM

53. The Role of a Gluteal Crease Abnormality in Predicting an Underlying Tethered Cord in Children

Kurtis I. Auguste, MD (San Francisco, Calif.); Sue Ditmyer, NP; Peter P. Sun, MD (Oakland, Calif.)

12:00 – 1:00 PM

Lunch in the Exhibit Hall

12:00 – 1:00 PM

Hydrocephalus Association Meeting Suffolk Room

1:00 – 2:30 PM

Raimondi Lecture Charles Stiles, PhD
Transcription Factors and Malignant Glioma in Mouse and Man

2:30 – 3:00 PM

Beverage Break in the Exhibit Hall

3:00 – 5:00 PM

Session VII: Hydrocephalus II

Moderators: Bruce A. Kaufman, MD, FACS; Howard J. Silberstein, MD

3:00 – 3:09 PM

54. The Terminal Myelocystocele

Christopher Gegg, MD; Greg Olavarria, MD; Keyne Johnson, MD; Jogi Pattisapu, MD (Orlando, Fla.)

3:10 – 3:19 PM

55. Bipolar Versus Monopolar Coagulation of Occluding Tissue in Ventriculoperitoneal Shunts

Mustafa Q. Hameed, MD; Tomer Anor, PhD; Joseph R. Madsen, MD (Boston, Mass.)

3:20 – 3:29 PM

56. Predictors of Ventricular Shunt Infections in Children

Elisabeth Ashley, MD; Joseph R. Madsen, MD; Amir Kimia, MD; Lise E. Nigrovic, MD, MPH; Mark I. Neuman, MD, MPH (Boston, Mass.)

3:30 – 3:39 PM

57. VEGF-Induced Ventriculomegaly and Neutralizing Angiogenesis

Joon W. Shim, PhD; Johanna Sandlund, MD, PhD; Carin H. Han; Mustafa Q. Hameed, MD; Michael Klagsbrun, PhD; Joseph R. Madsen, MD (Boston, Mass.)

3:40 – 3:49 PM

58. Comparison of Ventricular Reservoirs and Ventriculosubgaleal Shunts in the Management of Post-Hemorrhagic Hydrocephalus

James M. Johnston, MD; Matthew D. Smyth, MD; James Sagar, MD; Tae Sung S. Park, MD; Jeffrey R. Leonard, MD; Rebecca Munro, MA; David Limbrick, MD, PhD (St. Louis, Mo.)

3:50 – 3:59 PM

59. Shunt Survival Following Surgical Release of Tethered Spinal Cord

David M. Ibrahim, MD; Vivek A. Mehta, BS; Benjamin S. Carson, MD; George I. Jallo, MD; Edward S. Ahn, MD (Baltimore, Md.)

4:00 – 4:09 PM

60. Fourth Ventricular Shunt Survival Comparing Stereotactic Transtentorial and Suboccipital Approaches

Frank S. Bishop, MD; Mandy J. Binning, MD (Salt Lake City, Utah); Nicholas M. Wetjen, MD (Rochester, Minn.); Daniel E. Couture, MD (Winston Salem, N.C.); Douglas L. Brockmeyer, MD (Salt Lake City, Utah)

4:10 – 4:19 PM

61. Intraoperative Assessment of Cerebral Aqueduct Patency and Cisternal Scarring: Impact on Success of Endoscopic Third

Ventriculostomy in 403 African Children

Benjamin C. Warf, MD (Boston, MA); Abhaya V. Kulkarni, MD, PhD (Canada, Toronto)

4:20 – 4:29 PM

62. Ventriculo-Subgaleal Shunting: A Strategy to Reduce the Incidence of Slit Ventricles and Shunt Revisions

Anthony L. Petraglia, MD; Vassilios G. Dimopoulos, MD; Howard J. Silberstein, MD, FACS (Rochester, N.Y.)

4:30 – 4:39 PM

63. Quality of Life in Obstructive Hydrocephalus: Endoscopic Third Ventriculostomy Compared to Cerebrospinal Fluid Shunt

Abhaya V. Kulkarni, MD, PhD; Sonya Hui, BSc; Iffat Shams, MSc; Ruth Donnelly, PhD (Toronto, Canada)

4:40 – 4:49 PM

64. DTI Findings in Children With Benign External Hydrocephalus

Dean A. Hertzler II, MD; Weihong Yuan, PhD; Blaise V. Jones, MD; Akila Rajagopal, MS; Alessandro Cancelliere, PhD; Charles B. Stevenson, MD; Francesco T. Mangano, DO (Cincinnati, Ohio)

4:50 – 4:59 PM

65. Reinfection Following Initial Cerebrospinal Fluid (CSF) Shunt Infection

Tamara D. Simon, MD, MPH (Salt Lake City, Utah); Matthew Hall, PhD (Child Health Corporation, Shawnee Mission, Kan.); J. Michael Dean, MD, MBA; John R.W. Kestle, MD, MSc; Jay Riva-Cambrin, MD, MSc (University of Utah, Salt Lake City, Utah)

5:00 – 5:30 PM

Section Business Meeting Salon E

FRIDAY, DEC. 4, 2009

7:00 AM – 3:00 PM

Registration Registration B, 4th Floor

7:00 – 8:00 AM

Continental Breakfast

7:00 AM – 3:00 PM

Speaker Ready Room Yarmouth Room

8:00 – 8:30 AM

The Management of Incidentally Discovered Chiari I Malformation

Moderator: James M. Drake, MD
Richard G. Ellenbogen, MD, FACS
David M. Frim, MD, FACS

8:30 - 10:00 AM

Session VII: Technical/Vascular

Moderators: James M. Drake, MD; Cormac O. Maher, MD

8:30 – 8:39 AM

66. Transnasal Odontoidectomy Followed by Posterior Decompression and Occipitocervical Fusion in Children With Chiari I Malformation and Ventral Brainstem Compression

Richard C. Anderson, MD; Todd C. Hankinson, MD; Eli Grunstein, MD (New York, N.Y.); Paul Gardner, MD; T.J. Spinks, MD (Pittsburg, Pa.)

8:40 – 8:49 AM

67. Pus and Free Bone Flaps

Lars Widdel, MD; Ken Winston, MD (Aurora, Colo.)

8:50 – 8:59 AM

68. Preoperative Motor Mapping With Resting State Functional Connectivity Magnetic Resonance Imaging

James M. Johnston, MD; Carolyn E. Pizoli, MD, PhD; Joshua Shimony, MD, PhD; David D. Limbrick, MD, PhD; Matthew D. Smyth, MD (St. Louis, Mo.)

9:00 – 9:09 AM

69. The Efficacy and Safety of Occipital Screw Placement for Occipitocervical Fusion in Children

Joshua J. Chern, MD, PhD; Katherine Relyea, MS; Daniel J. Curry, MD; William E. Whitehead, MD, MPH; Thomas G. Luerksen, MD; Andrew Jea, MD (Houston, Texas)

9:10 – 9:19 AM

70. Minimally Invasive Placement of Pedicle Screws in Adolescent Patients Using a Neuronavigation Platform

Gregory Heuer, MD; Eamon McLaughlin, BS; Joel A. Bauman, MD; Phillip B. Storm, MD (Philadelphia, Pa.)

9:20 – 9:29 AM

71. Use of Suboccipital Autograft in Pediatric Cervical Spine Fusion

Douglas A. Hardesty, BA; Joel A. Bauman, MD; Gregory G. Heuer, MD, PhD; Phillip B. Storm, MD (Philadelphia, Pa.)

9:30 – 9:39 AM

72. Intraoperative Monitoring of Motor-Evoked Potentials in Very Young Children Less Than Three Years of Age

Andrew H. Jea, MD; Krishna B. Satyan, MD; Lillian M. Wilder; James J. Riviello, MD; Stephen A. Stayer, MD; William E. Whitehead, MD; Daniel J. Curry, MD; Robert C. Dauser, MD; Thomas G. Luerksen, MD (Houston, Texas)

9:40 – 9:49 AM

73. Intracranial Hemorrhage and Neurosurgical Intervention During Extracorporeal Membrane Oxygenation

Shawn L. Hervey-Jumper, MD; Andrea Yancon, BS; Gail Annich, MD, MS; Hugh J. L. Garton, MD, MHSc; Karin M. Muraszko, MD; Cormac O. Maher, MD (Ann Arbor, Mich.)

9:50 – 9:59 AM

74. Pial Synangiosis in Patients with Moyamoya Under Two Years Old

Eric M. Jackson, MD; R. Michael Scott, MD; Edward R. Smith, MD (Boston, Mass.)

10:00 – 10:30 am

Beverage Break in the Exhibit Hall

10:30 AM – 12:00 PM

Session IX: Case Reports/Hydrocephalus

Moderators: Peter P. Sun, MD; Mark D. Krieger, MD

10:30 – 10:39 AM

75. Sacroiliac Joint Pain in Pediatric Patients

Rebecca Munro, MA; Jeffrey Leonard, MD (St Louis, Mo.); Alex Powers, MD (Winston-Salem, N.C.); Joan Puglisi, PT (St. Louis, Mo.)

10:40 – 10:49 AM

76. Disruption of Essential Neurodevelopmental Cytokine Networks Is

Exacerbated by Combined Prenatal Inflammatory and Hypoxic-Ischemic Injury

Shenandoah Robinson, MD; Obehi Irumudomon, BA; Qing Li, MD (Cleveland, Ohio)

10:50 – 10:59 AM

77. Survival of Adjustable Valve Shunts and Set-Pressure Valve Shunts in Children With Hydrocephalus

Krzysztof R. Drzymalski, BA; Meshkan Moghimi, BA; Nikki Thuijs, BA; Joseph Madsen, MD (Boston, Mass.)

11:00 – 11:09 AM

78. Immortalization and Functional Characterization of Rat Arachnoid Cells

Christopher Janson, MD (Minneapolis, Minn.)

11:10 – 11:19 AM

79. Lysis of Abdominal Adhesions for Distal Catheter Placement in the Difficult-to-Shunt Patient

Daniel K. Harmon, MD; Shannon Chevis, MD; Gavin Reed; R. Shane Tubbs, PhD; Kurt Rozzelle, MD; Jeffery Blount, MD; W. Jerry Oakes, MD; Jay Wellons, MD (Birmingham, Ala.)

11:20 – 11:29 AM

80. A Novel Method for Cerebrospinal Fluid Diversion Utilizing the Sternum: A Cadaveric and Animal Study

David F. Bauer, MD; R. Shane Tubbs, PhD, PA-C; M. Rene Chambers, MD (Birmingham, Ala.); Marios Loukas, MD, PhD (St. George's University, Grenada); Mohammadali M. Shoja, MD; Aaron A. Cohen-Gadol, MD, MSc (Indianapolis, Ind.)

11:30 – 11:39 AM

81. Meningioangiomas: Clinical, Pathological and Radiographic Review of Six Cases

Susan C. Williams, MD; David Zagzag, MD; Werner Doyle, MD; Jeffrey Wisoff, MD (New York, N.Y.)

11:40 – 11:49 AM

82. Infant Arachnoid Cysts Have a Different Natural History Than Arachnoid Cysts in Later Childhood

Ashutosh Singhal, MD; Daria Krivosheya, MD; D. Douglas Cochrane, MD; Paul Steinbok, MD (Vancouver, Canada)

11:50 – 11:59 AM

83. HASTE MRI in Children With Hydrocephalus

Brent O'Neill, MD; Ryan Robison; Kieko Weir; Harman Bains; Sumit Pruthi, MD; Samuel Browd, MD, PhD (Seattle, Wash.)

12:00 – 12:10 PM

Closing Remarks

Liliana Goumnerova, MD, FRCS(C)
Ann-Christine Duhaime, MD

12:15 – 1:00 PM

Lunch

Clarendon Room

1:00 – 4:00 PM

Neurofibromatosis Symposium

1:00 - 1:30 PM

Genetics/Diagnosis

Nicole Ullrich, MD

1:30-2:00 PM

Radiology

Tina Young-Poussaint, MD

2:00-2:15 PM

Coffee break

2:15-2:45 PM

Spine Considerations

John Emans, MD

2:45-3:30 PM

Surgical

Role of surgery/indications for supratentorial tumors—optic pathway tumors

3:30-4:00 PM

Outcome

Mark Kieran, MD

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Pediatric SHORT CUTS



AANS/CNS Section on Pediatric Neurological Surgery

Editor: Bruce A. Kaufman, MD

Fall 2009

Membership Update

Mark R. Proctor, M.D.



Mark R. Proctor, MD

The Membership Committee has completed a third membership drive, with 79 new members installed over the past year. There are 19 candidates for membership to be considered at the next meeting: seven for active membership, seven for resident/fellow membership, and five for international membership.

The process for applying to the Pediatric Section for membership has been converted to a completely electronic, online format, and membership categories have been expanded to welcome resident and fellow members.

The following people are proposed for membership in the section (in the categories as noted). Any comments regarding these candidates should be directed to Mark Proctor, MD.

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Active	City, State	Country
Ahn, Edward	Baltimore, MD	United States
Greene, Stephanie	Pittsburgh, PA	United States
Lazareff, Jorge	Los Angeles, CA	United States
Mohan, Avinash Lalith	Valhalla, NY	United States
Singer, Robert	Nashville, TN	United States
Tarasiewicz, Izabela	Burlington, VT	United States
Tovar-Spinoza, Zulma	Syracuse, NY	United States

Resident	City, State	Country
Danu, Silvia	Chisinau	Moldova
Kaufman, Christian Burnette	Rochester, NY	United States
Onwuzulike, Kaine	Cleveland, OH	United States
Rabiu, Taopheeq	Ibadan	Nigeria
Saluja, Rajeev	Montreal	Canada
Vasquez, Adan Agreda	Cuauhtemoc	Mexico
Yi, Juneyoung	Syracuse, NY	United States

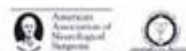
International	City, State	Country
Chacon, Adrian	San Jose	Costa Rica

Cinalli, Giuseppe	Naples	Italy
Hwang, Sung Kyoo	Daegu	South Korea
Karabagli, Hakan	Konya	Turkey
Wang, Kyu-Chang	Seoul	South Korea

Mark R. Proctor, MD, is chair of the Membership Committee of the AANS/CNS Section on Pediatric Neurological Surgery

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Pediatric SHORT CUTS



AANS/CNS Section on Pediatric Neurological Surgery

Editor: Bruce A. Kaufman, MD

Fall 2009

SONS News

Mark S. Dias, MD, FAAP



Mark S. Dias, MD, FAAP

The Section on Neurological Surgery of the American Academy of Pediatrics stands as a unique organization. SONS interfaces directly with organized pediatrics with the intent of educating pediatricians, advocating for children and children's issues, and working toward high quality healthcare for all children. The SONS currently has 76 dues-paying members, representing approximately 38 percent of the approximately 200 board-certified pediatric neurosurgeons.

Tangible benefits of membership include a subscription to *Pediatrics* (the official journal of the AAP); the AAP Newsletter; the Red Book of pediatric infectious diseases; and many other high quality educational materials. Additional recent benefits have included a CD-ROM containing all AAP guidelines and policies that pertain to pediatric neurosurgery, and -- for those members who request it -- a free book, *Inflicted Childhood Neurotrauma* (published by the AAP), that provides a wealth of information pertinent to abusive head injuries in children. So far, more than 50 SONS members have taken advantage of this opportunity; those members who still wish to receive a free copy can send a request by e-mail to astolic@aap.org.



Boston's Beacon Hill
Greater Boston Convention & Visitors Bureau

Educationally, the SONS will be providing two lectures at the 2009 AAP National Conference and Exhibits, or NCE: a "meet the expert" talk on hydrocephalus, shunts and endoscopy, and a lecture on return to sports after traumatic brain injury. SONS will provide four lectures for the 2011 NCE. The SONS also has created a brochure on occipital plagiocephaly, "Your Baby's Head Shape: Information for Parents on Positional Skull Deformities," which has been vetted by the AAP and is now available through the AAP bookstore at <http://www.aap.org/bookstorepubs.html>.

The SONS additionally has been involved in creating, reviewing and providing commentary on several AAP guidelines and clinical reports for occipital plagiocephaly, microcephaly, management of youth soccer injuries, and spasticity. In addition, the SONS has submitted a proposal, currently under review, for a clinical report on the identification, evaluation and referral of children with cutaneous markers of spinal dysraphism.

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The SONS also has been involved with other organizations in two projects. First, Hector James, MD, and Derek Bruce, MD, are working on behalf of the SONS with Catherine Mazzola, MD, and multiple societies on the development of Guidelines for the Determination of Brain Death in Children. Second, working with the AANS/CNS Section on Pediatric Neurological Surgery, a survey was sent to neurosurgical residents in North America querying their perceptions about reasons for, and barriers to, careers in pediatric neurosurgery; the data are being analyzed and the results will be available soon.

The SONS' visibility among pediatric neurosurgeons was enhanced when Renee Jenkins, MD, the immediate past president of the AAP, spoke at the 2008 Pediatric Section meeting in Spokane, Wash. The SONS is very pleased to sponsor a second luncheon lecture at the upcoming 2009 meeting in Boston. Sulpicio "Sol" Soriano, MD, from Boston Children's Hospital will speak about pediatric neuroanesthesia. We hope to continue to sponsor guest speakers from disciplines allied with pediatric neurosurgery at future meetings.

During my tenure as chair of the SONS, it is my mission to increase the value of SONS membership to my fellow pediatric neurosurgeons. I hope to enhance the visibility of the AAP to pediatric neurosurgeons as well as to expand the opportunities for pediatric neurosurgeons to educate the pediatric community.

Mark S. Dias, MD, FAAP, is chair of the Section on Neurological Surgery of the American Academy of Pediatrics.

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